

# UK MBE 2025

## University of Warwick

### Tuesday 25th March

??? - 19.00 lounge area at Radcliffe available to meet & chat

**19.00 - 21.00 Conference Dinner**

21.00 - ??? bar area at Radcliffe will remain open

### Wednesday 26th March

**08.30 - 09.00 Registration & Coffee**

09.00 - 09.10 Welcome to Warwick and introduction

09.10 - 09.30 Electrically pumped Quantum Dot laser on patterned on-axis Si Substrate

09.30 - 09.50 Growth of strain balanced InAs/InAsSb strained layer type-II superlattice LEDs on GaSb

09.50 - 10.10 GaAs on Graphene plus MBE system moves

10.10 - 10.30 Small-sample substrate temperature calibration using InSb(001)

**10.30 - 11.10 Exhibition & Coffee**

11.10 - 11.30 Update on GaAsBi growth using MBE

11.30 - 11.50 InAs quantum dot lasers on InP and Si substrates

11.50 - 12.10 MBE deposition of InBi on silicon (111): growth beyond natural tendencies

12.10 - 12.30 Strain-free GaAs quantum dots on AlGaAs by Local Droplet Etching

**12.30 - 14.10 Exhibition & Lunch**

14.10 - 14.30 Enhancing High-T Performance of InAs/GaAs QD Lasers Through Doping Techniques

14.30 - 14.45 Accidental epitaxy: the case of InBi(001) on InAs(111)A

14.45 - 15.00 New MBE system developments in Sheffield

15.00 - 15.15 IR detectors and ALD passivation

15.15 - 15.45 **Conferences and general discussion**

EuroMBE 2025 - Auron, France

North American MBE (NAMBE2024) - Tufts University, Boston

International Conference on MBE (ICMBE2024) - Matsue, Japan

Next UK MBE? Euro MBE 2027?

Gavin Bell, University of Warwick

Chong Chen, University College London

Philip Bond, Lancaster University

Benjamin Ramsay, University of Cambridge

Zhuo Yu & Ethan Dommett, Warwick University

Douglas Crackett, University of Sheffield

Hui Jia, University College London

Petr Novak, NTC University of West Bohemia

Akshay Verma, University of Sheffield

Huiwen Deng, University College London

Gavin Bell, University of Warwick

Edmund Clarke, University of Sheffield

Ian Sandall, University of Liverpool

Sergei Novikov, University of Nottingham

Ian Farrer, University of Sheffield